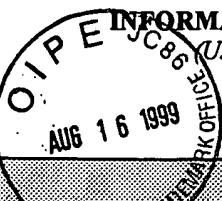


PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. NO. 0225-4185

SERIAL NO. 09/314,738

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

APPLICANT(S): Sholom S. Rosen

FILING DATE: May 19, 1999

GROUP ART UNIT: 2132

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
6B	5,453,601	09/26/95	Rosen			
	5,539,828	7/1996	Davis			05/31/94
	5,473,692	12/1995	Davis			09/07/94
	5,568,552	10/1996	Davis			09/07/94
	4,443,027	4/1984	McNeely et al			
	4,454,414	6/1984	Benton			
	4,529,870	7/1985	Chaum			
	4,634,807	1/1987	Chorley et al.			
	4,644,493	2/1987	Chandra et al.			
	4,817,140	3/1989	Chandra et al.			
6B	4,916,738	4/1990	Chandra et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
6B	0 172670 A2	02/26/86	EPO				
	0 380 377 B1 (with Abstract)	8/1990	EPO				
	4 191 06 A1	3/1991	EPO				X
6B	9308545	4/1993	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

6B	"Online Cash Checks", Chaum, D.; <i>Advances in Cryptology EUROCRYPT '89</i> , Quisquater & J. Vandewalle (Eds.) Springer-Verlag, pp. 288-293.
	"Achieving Electronic Privacy", Chaum, D.; <i>Scientific American</i> , Aug. 1992, pp. 96-101.
	"Value Exchange Systems Enabling Security and Unobservability", Burk, H., et al., <i>Computers & Security</i> , 9 (1990), pp. 715-721.
	"Proxy-Based Authorization and Accounting for Distributed Systems", Neuman, B. Clifford; <i>Proceedings of the 13th International Conference on Distributed Computing Systems</i> , Pittsburgh, May 1993.
6B	"Le paiement électronique", P. Rémery, J.C. Pailles and F. Lay, <i>L'Echo des RECHERCHES</i> , No. 134 4 trimester 1988 (with English-language translation).

EXAMINER	DATE CONSIDERED
GILBERTO BARRÓN, JR.	5/4/01

EXAMINER: Initial if reference considered. Primary Examiner: Initial if information is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this sheet with next communication to applicant.

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 0225-4185

SERIAL NO.: 09/314,738

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

APPLICANT(S): Sholom S. Rosen

FILING DATE: May 19, 1999

GROUP ART UNIT: 2761

09/314,738
2132

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
68	4,926,480	5 / 1990	Chaum			
	4,972,175	11 / 1990	MacPherson			
	4,999,806	3 / 1991	Chernow et al.			
	5,109,413	4 / 1992	Comerford et al.			
	5,117,457	5 / 1992	Comerford et al.			
	5,131,039	7 / 1992	Chaum			
	5,144,663	9 / 1992	Kudelski et al.			
	5,148,534	9 / 1992	Comerford			
	5,162,989	11 / 1992	Matsuda			
68	5,185,717	2 / 1993	Mori			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
68	WO 94/01825	1 / 1994	PCT				
	0 474 360 A2	3 / 1992	EPO				
	0 569 816 A2	11 / 1993	EPO				
68	22 57 55 7	1 / 1993	UK				

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"Padlock", D. Everett, *Computer Bulletin*, Mar. 1985, pp. 16-17."ABYSS: A Trusted Architecture for Software Protection", S.R. White and L. Comerford, *IEEE*, 1987."Public Protection of Software", A. Herzberg and S.S. Pinter, *ACM Transactions on Computer Systems*, vol. 5, no. 4, Nov. 1987, pp. 371-393.

"Security Without Identification: Card Computers To Make Big Brother Obsolete", D. Chaum, 1987.

"Internet Billing Service Design and Prototype Implementation", Marvin A Sirbu, *IMA Intellectual Property Project Proceedings*, vol. 1, Issue 1, Jan. 1994.

"Dyad: A System for Using Physically Secure Coprocessors", J.D. Tygar and B. Yee, School of Computer Science, Carnegie Mellon Univ., Pittsburgh, PA.

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ART UNIT 2761

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.: 0225-4185	SERIAL NO.: 09/314,738
O P E INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		09/314,738	
		APPLICANT(S): Sholom S. Rosen	
		FILING DATE: May 19, 1999	GROUP ART UNIT: 2761

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
6b	5,202,921	4 / 1993	Herzberg et al.			
6b	5,221,838	5 / 1993	Gutman et al.			
	5,247,578	9 / 1993	Pailles et al.			
	5,276,311	1 / 1994	Hennige			
	5,276,736	1 / 1994	Chaum			
	5,305,200	4 / 1994	Hartheimer et al.			
	5,319,705	6 / 1994	Halter et al.			
	5,416,840	5 / 1995	Cane et al.			
6b	5,440,634	8 / 1995	Jones et al.			
6b	4,794,644	12 / 1988	Philip et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
6b	Hei 4-64129	2/92	JP			X	
6b	Hei 6-60089 (with English Abstract)	3/94	JP				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

6b	"Trusted Devices as applied to Corporate Key Escrow", F. Sudia, Jan. 14, 1994, Bankers Trust Co.
	"Wavemeter Chip Provides Digital Money", M. Slater, <i>Microprocessor Report</i> , Vol. 8, No. 5, Apr. 18, 1994.
	"Data Networks and Open System Communications Directory / Information Technology – Open Systems Interconnection – The Directory: Authentication Framework," ITU-T Recommendation X.509, Nov. 1993
	"Anonymous Internet Mercantile Protocol", AT&T Bell Laboratories, Draft: March 17, 1994, pp. 1-16, David M. Kristol, Steven H. Low, Nicholas F. Maxemchuk
6b	Literature of Microcomputer [II], edited by Nihon Denshi Kogyo Sinko Kyokai (March, 1988), pp. 190-217 (Japanese language) and English translation thereof.

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.: 0225-4185	SERIAL NO.: 09/314,738
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		09/314,738	
		APPLICANT(S): Sholom S. Rosen	
		FILING DATE: May 19, 1999	GROUP ART UNIT: 2401 (213)

U.S. PATENT DOCUMENTS						
EXAMINER & INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

EXAMINER & INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
60	5,177,791	1 / 1993	Yeh et al.			
60	4,993,069	2 / 1991	Matyas et al.			
	5,301,247	4 / 1994	Rasmussen et al.			
	4,933,971	6 / 1990	Bestock et al.			
	4,864,615	9 / 1989	Bennett et al.			
	5,247,576	9 / 1993	Bright			
	4,888,800	12 / 1989	Marshall et al.			
	4,876,716	10 / 1989	Okamoto			
	5,081,678	1 / 1992	Kaufman et al.			
	5,448,638	9 / 1995	Johnson et al.			
	4,941,173	7 / 1990	Boule et al.			
	4,956,863	9 / 1990	Goss			
	4,799,156	1 / 1989	Shavit et al.			
	4,879,747	11 / 1989	Leighton et al.			
60	5,511,121	4 / 1996	Yacobi			09/08/94
60	4,868,877	9 / 1989	Fischer			

FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)						
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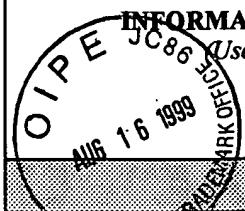
60		"Universal Electronic Cash", Tatsuaki Okamoto and Kazuo Ohta, CRYPTO '91, (Session 8: Applications and Implementations; pp. 8-7 through 8-13).
60		"Limitations of the Kerberos Authentication System", Steven M. Bellovin and Michael Merritt, USENIX - Winter '91 (1-15).

EXAMINER	DATE CONSIDERED
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GILBERTO BARRON, JR.

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		09/314,738	



APPLICANT(S): Sholom S. Rosen	FILING DATE: May 19, 1999	GROUP ART UNIT: 276 273
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
GB	4,723,284	2 / 1998	Munck et al.			
	5,001,752	3 / 1991	Fischer			
	5,481,715	2 / 1996	Hamilton et al.			12/15/93
	5,490,251	2 / 1996	Clark et al.			08/09/91
	5,282,248	1 / 1994	Dejoy			RECEIVED JUL 20 1991 U.S. MAIL ROOM
	4,663,664	5 / 1987	Ragan et al.			
	4,682,224	7 / 1987	Ragan et al.			
	4,682,223	7 / 1987	Ragan et al.			
	4,977,595	12 / 1990	Ohta et al.			
	4,453,074	6 / 1984	Weinstein			
	5,191,573	3 / 93	Hair			9/18/90
GB	5,675,734	10 / 97	Hair			2/27/96
GB	4,528,643	7 / 85	Freeny, Jr.			1/10/83

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

GB	"Applied Cryptography: Protocols, Algorithms, and Source Code in C", Bruce Schneier, John Wiley & Sons, Inc. (417-429) ISBN 0-471-59756-2; QA76.9.A25S35 1993.
	"An Architecture for Practical Delegation in a Distributed System", Morrie Gasser, Ellen McDermott, IEEE Computer Society Press, IEEE Computer Society Symposium on Research in Security and Privacy, May 7-9, 1990.
	"Practical Uses of Synchronized Clocks in Distributed Systems", Barbara Liskov, ACM Press, 10 th Annual ACM Symposium on Principles of Distributed Computing, Aug. 19-21, 1991, ISBN 0-89791-439-2.
	"SPX: Global Authentication Using Public Key Certificates", Joseph J. Tardo and Kannan Alagappan, IEEE 191 (CH2986-8/91/0000/0232).
GB	"The Digital Distributed System Security Architecture", Morrie Gasser, et al., Nat'l. Inst. of Standards and Tech./Nat'l Computer Security Ctr., 12 th National Computer Security Conferences, Baltimore, MD Oct. 10-13, 1989.

EXAMINER	GILBERTO BARRÓN, JR.	DATE CONSIDERED	5/4/01
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PRIMARY EXAMINER

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FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.: 0225-4185	SERIAL NO.: 09/314,738
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		09/314,738	
		APPLICANT(S): Sholom S. Rosen	
		FILING DATE: May 19, 1999	GROUP ART UNIT: 225-213

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
BB	5,878,139	3/99	Rosen			
	5,799,086	8/98	Sudia			
	5,703,949	12/97	Rosen			
	5,642,419	6/97	Rosen			
	5,621,797	4/97	Rosen			
	5,557,518	9/96	Rosen			
	5,396,558	3/95	Ishiguro et al.			
	5,389,738	2/95	Piosenka et al.			
	5,267,171	11/93	Suzuki et al.			
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	5,200,999	4/93	Matyas et al.			
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	4,910,774	7/88	Barakat			
BB	09/138,107		Rosen			8/98
	09/138,290	PENDING	Rosen			8/98
	09/138,459	PENDING	Rosen			8/98
	09/197,179	PENDING	Rosen			11/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

EXAMINER	DATE CONSIDERED
GILBERTO BARRON, JR. PRIMARY EXAMINER ART UNIT 222	5/4/01

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